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EDUCATION

B.E. Computer Engineering	2021-2025	Thapar Institute of Engineering and Technology	81.8%
CBSE (Class XII)	2021	Ryan International, Chandigarh	94.2%
CBSE (Class X)	2019	Ryan International, Chandigarh	91.6%

PROJECTS

Non-Invasive Tuberculosis Detection | *Jetson Nano, Python, TensorFlow, Node.Js., SQL*   February 24 - Ongoing

- Developed a non-invasive tuberculosis detection model trained on breath patterns of TB patients (Synthetic and Real-time) which was further used to generate a larger dataset using Transfer Learning of **1000+** images.
- Implemented the trained model on the Jetson Nano platform for real-time inference and portability.
- Connected the entire system with Node.Js to deploy a website for real-time results visualization.
- **Funded by ICMR (Indian Council of Medical Research).**

Event Invite System Server | *JavaScript, Node.Js, Express.js, MongoDB, REST API, Docker*   April 22 - July 23

- Engineered a backend system using Node.Js and Express.Js to automate event invitations, complete with QR code-based invitation verification, currently in operational use by the society.
- Created a responsive Flutter frontend, integrating REST API endpoints, to streamline user interactions with the backend.
- Employed Docker for efficient containerization, ensuring seamless deployment and scalability of the invite system.
- The link to repository

Optical Character Reader | *Python, Pytorch, CUDA*   February 23 - March 23

- Implemented image OCR using CRNN architecture, incorporating bidirectional LSTM as RNN, and a sequential CNN based on the paper from https://arxiv.org/pdf/1507.05717v1.pdf.
- Leveraged NVIDIA CUDA technology to optimize processing, resulting in a remarkable **tenfold** increase in speed.
- The link to repository

POSITION OF RESPONSIBILITY

OWASP TIET, *Secretary*   December 2021 - Ongoing

- Organized an orientation program and a cybersecurity workshop for students as the **Secretary** at OWASP, a non-profit foundation dedicated to enhancing software security.
- Managed a **70+** member team as the **technical head** for the society's hackathons, utilizing strong communication skills to delegate tasks, provide clear instructions, and resolve conflicts

TECHNICAL SKILLS

- **Computer Languages**: C/C++, JavaScript, bash, HTML, CSS, SQL, Python.
- **Tools**: Linux, React.Js, Node.Js, Express.Js, TensorFlow, MongoDB, GIT/GitHub, Postman, VS Code, Agile.
- **Skills**: Software Engineering, Full Stack development, Database Management